
Subject Title Basic Electrical Engineering Code

Basic Electrical Engineering
Basic Electrical Engineering
Basic Electrical Engineering
A Programmed Review for Electrical Engineering
Electrical Engineering (as Per Uptu Syllabus)
BASIC ELECTRICAL ENGINEERING
Basic Electrical Engineering
BASIC ELECTRICAL ENGINEERING 2ND ED
Electromagnetics and Transmission Lines
Basic Electrical and Electronics Engineering
Basic Electrical Engineering
Basic Electrical And Electronics Engineering I (For
Wbut)
Basic Electrical Engineering
Fundamentals of Electrical Engineering and
Electronics (LPSPE)
Schaum's Outline of Theory and Problems of
Basic Electrical Engineering
ABC of Electrical Engineering
BASICS OF ELECTRICAL ENGINEERING AND
ELECTRONIC COMPONENTS
BASIC ELECTRICAL ENGINEERING
BASIC ELECTRICAL AND ELECTRONICS
ENGINEERING

A Textbook of Electrical Technology - Volume III
THEORY AND PROBLEMS OF BASIC ELECTRICAL
ENGINEERING,, Second Edition
Basic Electrical Engineering
Basic Electrical and Instrumentation Engineering
Basic Electrical and Electronics Engineering: For
RGPV
Basic Electrical Engineering
Foundations of Electrical Engineering
KTU Question Bank (EST130)
Basic Electrical Engineering
Basic Electrical Engineering
Engineering Basics: Electrical, Electronics and
Computer Engineering
Basic Electrical & Instrumentation Engineering
Principles of Electrical Engineering and
Electronics
Schaum's Outline of Basic Electrical Engineering
Basic Electrical Engineering
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Basic Electrical Engineering
Basic Electrical and Electronics Engineering-II: For
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KENDRA

*Basic
Electrical*

Engineering
McGraw-Hill
Companies
This
comprehensiv

e book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduat e students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of

the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentatio n systems. **Basic**

Electrical Engineering
S. Chand Publishing
Designed For Entry-Level Engineering Students, This Book Presents A Thorough Exposition Of Electrical, Electronics, Computer And Communicatio n Engineering. Simple Language Has Been Used Throughout The Book And The Fundamental Concepts Have Been Systematically Highlighted * This Edition Includes New Chapters On * Transmission And

Distribution *
 Communication Services *
 Linear And Digital
 Integrated Circuits *
 Sequential Logic System
 * The Book Also Includes *
 Large Number Of Diagrams
 For A Clear Understanding
 Of The Subject *
 * Cumerous Solved
 Examples Illustrating
 Basic Concepts And
 Techniques *
 Exercises And Review
 Questions With Answers
 * Revision Formulae For
 Quick Review And Recall
 All These

Features Make This Book An
 Ideal Text For Both Degree
 And Diploma Students
 Engineering. **Basic
 Electrical Engineering**
 New Age International
 A textbook of Electrical
 Technology. In this
 edition, two new chapters
 have ben added namely
 Rating & Service
 Capacity'and distribution
 Automation .The First
 chapter will be usefu to
 degree/diplom a students
 underdoing their first

course in Electrical
 Drives.Italso contains many
 solved problems for
 the benefit of students.
 Anot her new chapter'
 istribution' Automation' is
 a latest development
 in the field of Electrical
 Power System Engineering.
 Ti llrecent years, stress
 was given on Generation
 and Transmission. **A
 Programmed Review for
 Electrical Engineering**
 John Wiley & Sons
 This book

presents comprehensive coverage of all the basic concepts in electrical engineering. It is designed for undergraduate students of almost all branches of engineering for an introductory course in essentials of electrical engineering. This book explains in detail the properties of different electric circuit elements, such as resistors, inductors and capacitors. The fundamental concepts of dc circuit laws, such as Kirchhoff's current and voltage laws, and various network theorems, such as Thevenin's theorem, Norton's theorem, superposition theorem, maximum power transfer theorem, reciprocity theorem and Millman's theorem are thoroughly discussed. The book also presents the analysis of ac circuits, and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three-phase circuits. It describes series and parallel RLC circuits, magnetic circuits, and the working principle of different kinds of transformers. In addition, the book explains the principle of energy conversion, the operating characteristics of dc machines, three-phase induction machines and synchronous

machines as well as single-phase motors. Finally, the book includes a discussion on technologies of electric power generation along with the different types of energy sources. Key Features : Includes numerous solved examples and illustrations for sound conceptual understanding . Provides well-graded chapter-end problems to develop the problem-solving capability of

the students. Supplemented with three appendices addressing matrix algebra, trigonometric identities and Laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering. *Electrical Engineering (as Per Uptu Syllabus)* RAJATH PUBLISHERS The General Response to the first

edition of the book was very encouraging. The authors feel that their work has been amply rewarded and wish to express their deep sense of gratitude, in common to the large number of readers who have used it, and in particular to those who have sent helpful suggestions from time to time for the improvement of the book. To enhance the utility of the book, it has been decided to bring out

the multicolor edition of book. There are three salient features multicolor edition.

BASIC ELECTRICAL ENGINEERING Technical Publications Foundations of Electrical Engineering covers the fundamental ideas and basic laws in electrical engineering. This book is organized into five parts encompassing 24 chapters. Part I provides an overview of the Maxwell's equation and its significance

in electrical engineering. Part II deals first with the determination of static and steady electric fields. This part also discusses the solution of Laplace's equation, boundary value problems, the concept of capacity, and magnetic field. Parts III and IV explore the laws of network analysis and synthesis, as well as the basic principles and applications of electromagnetic waves. These parts

also describe the main features of classical electrodynamics and its application to problems of electrical engineering. Part V highlights the combined contributions of Maxwell's equations and the laws of mechanics in the subject field. Electrical engineers, and electrical engineering teachers and students will find this book invaluable.

Basic Electrical Engineering S. Chand Publishing

This book is prepared as per the revised syllabus (2019) of Basic Electrical and Electronics Engineering course for APJ Abdul Kalam Technological University. It is prepared using the text books and reference books given in the course syllabus and a few other internationally reputed works. Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them. Previous year solved problems will help the students to achieve good marks.

BASIC ELECTRICAL ENGINEERING 2ND ED
Pearson Education India
This Book Is Written For Use As A Textbook For The Engineering Students Of All Disciplines At The First Year Level Of The B.Tech. Programme. The Text Material Will Also Be Useful For Electrical Engineering Students At Their Second Year And Third Year Levels. It Contains Four Parts, Namely, Electrical Circuit Theory, Electromagnetism And Electrical Machines, Electrical Measuring Instruments, And Lastly The Introduction To Power Systems. This Book Also Contains A Good Number Of Solved And Unsolved Numerical Problems. At The End Of Each Chapter References Are Included For Those

Interested In Pursuing A Detailed Study. <i>Electromagnetics and Transmission Lines</i> Pearson Education India Basic Electrical Engineering Has Been Written As A Core Course For All Engineering Students Viz. Electronics And Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering Etc. Since This Course Will Normally Be	Offered At The First Year Level Of Engineering, The Author Has Made Modest Effort To Give In A Concise Form. Various Features Of Basic Electrical Engineering Using Simple Language And Through Solved Examples, Avoiding The Rigorous Of Mathematics. Student friendly Features * Steady State Analysis Of A.C. Circuits Explained * Network Theorems Explained Using Typical	Examples * Analysis Of 3-Phase Circuits And Measurement Of Power In These Circuits Explained * Measuring Instruments Like Ammeter, Voltmeter, Wattmeter And Energy Meter Described * Various Electrical Machines, Like Transformers, D.C. Machines, Single Phase And Three Phase Induction Motors, Synchronous Machines, Servomotors Have Been Described * A Brief View Of
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<p>Power System Including Conventional And Nonconventional Services Of Electrical Energy Is Given * Numerous Solved Examples And Practice Problems For Thorough Grasp Of The Subject Presented * A Large Number Of Multiple-Choice Questions With Answers Given</p> <p><i>Basic Electrical and Electronics Engineering S. Chand Publishing</i></p> <p>Attuned to the needs of</p>	<p>undergraduate students of engineering in their first year, Basic Electrical Engineering enables them to build a strong foundation in the subject. A large number of real-world examples illustrate the applications of complex theories. The book comprehensively covers all the areas taught in a one-semester course and serves as an ideal study material on the subject.</p> <p><i>Basic Electrical</i></p>	<p><i>Engineering Springer Science & Business Media</i></p> <p>This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for undergraduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm</p>
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<p>understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.</p> <p>Basic Electrical And Electronics Engineering I (For Wbut)</p> <p>Pearson Education India</p> <p>Basic Electrical Engineering Has Been Written As A Core Course For All Engineering</p>	<p>Students Viz. Electronics And Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering Etc. Since This Course Will Normally Be Offered At The First Year Level Of Engineering, The Author Has Made Modest Effort To Give In A Concise Form, Various Features Of Basic Electrical Engineering Using Simple Language And Solved</p>	<p>Examples, Avoiding The Rigorous Of Mathematics. The Salient Features Of The Book Are :</p> <ul style="list-style-type: none"> * Steady State Analysis Of A.C. Circuits Explained. * Network Theorems Explained Using Typical Examples. * Analysis Of 3-Phase Circuits And Measurement Of Power In These Circuits Explained. * Measuring Instruments Like Ammeter, Voltmeter, Wattmeter And Energy Meter Described. * Various
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Electrical Machines Viz. Transformers, D.C. Machines, Single Phase And Three Phase Induction Motors, Synchronous Machines, Servomotors Have Been Described. * A Brief View Of Power System Including Conventional And Non-Conventional Services Of Electric Energy Is Given. * Domestic Wiring Has Been Discussed. * Numerous Solved Examples And Practice

Problems For Thorough Grasp Of The Subject Presented. * A Large Number Of Multiple Choice Questions With Answers Given.

Basic Electrical Engineering
Alpha Science International, Limited
This book is prepared as per the syllabus of VISVESVARAY A TECHNOLOGICAL UNIVERSITY, Karnataka for first year B. Tech (Engineering) course using the reference

books given in the course syllabus. Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of topics.
Fundamentals of Electrical Engineering and Electronics (LPSPE)
Sapna Book

<p>House (P) Ltd. Basic Electrical and Electronics Engineering: For RGPV is a student- friendly, practical and example- driven book that gives its readers a solid foundation in the basics of electrical and electronics engineering. The contents have been tailored to exactly correspond with the requirements of the core course Basic Electrical and Electronics Engineering, offered to the students of</p>	<p>Rajiv Gandhi Proudyogiki Vishwavidyala ya in their first year. A rich collection of solved examples and chapters mapped to the university syllabus make this book indispensable for students. <u>Schaum's</u> <u>Outline of</u> <u>Theory and</u> <u>Problems of</u> <u>Basic</u> <u>Electrical</u> <u>Engineering</u> Laxmi Publications The book is written per the syllabus of first year engineering degree course for various universities. It</p>	<p>covers basic topics of electrical and electronics engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate</p>
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them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc. This book is one of the prescribed text books for the syllabus of Kerala University B. Sc Electronics

course. ABC of Electrical Engineering S. Chand Publishing □Fundamentals of Electrical Engineering and Electronics□ is a useful book for undergraduate students of electrical engineering and electronics as well as B.Sc. Electronics. The book discusses concepts such as Network Analysis, Capacitance, Electromagnetic Induction, Motors Circuits and Diodes in an

easy to relate and thereby understand manner. Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself. A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the

most sought after texts by the students.
BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS
 S. Chand Publishing
 Electromagnetics and Transmission Lines
 Textbook resource covering static electric and magnetic fields, dynamic electromagnetic fields, transmission lines, antennas, and signal integrity within a single course
 Electromagnet

ics and Transmission Lines provides coverage of what every electrical engineer (not just the electromagnetic specialist) should know about electromagnetic fields and transmission lines. This work examines several fundamental electrical engineering concepts and components from an electromagnetic fields viewpoint, such as electric circuit laws, resistance,

capacitance, and self and mutual inductances. The approach to transmission lines (T-lines), Smith charts, and scattering parameters establishes the underlying concepts of vector network analyzer (VNA) measurements. System-level antenna parameters, basic wireless links, and signal integrity are examined in the final chapters. As an efficient learning resource,

<p>electromagnetics and transmission lines content is strategically modulated in breadth and depth towards a single semester objective. Extraneous, distracting topics are excluded. The wording style is somewhat more conversational than most electromagnetics textbooks in order to enhance student engagement and inclusivity while conveying the rigor that is essential for engineering</p>	<p>student development. To aid in information retention, the authors also provide supplementary material, including a homework solutions manual, lecture notes, and VNA experiments. Sample topics covered in Electromagnetics and Transmission Lines include: Vector algebra and coordinate systems, Coulomb's law, Biot-Savart law, Gauss's law, and solenoidal magnetic flux</p>	<p>Electric potential, Ampere's circuital law, Faraday's law, displacement current, and the electromagnetic principles underlying resistance, capacitance, and self and mutual inductances. The integral form of Maxwell's equations from a conceptual viewpoint that relates the equations to physical understanding (the differential forms are also included in an appendix) DC</p>
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transients and AC steady-state waves, reflections, and standing waves on T-lines
Interrelationships of AC steady-state T-line theory, the Smith chart, and scattering parameters
Antenna basics and line-of-sight link analysis using the Friis equation
An introduction to signal integrity
Electromagnetics and Transmission Lines is an authoritative textbook learning resource, suited perfectly for engineering programs at colleges and universities with a single required electromagnetic fields course.
Student background assumptions are multivariable calculus, DC and AC electric circuits, physics of electromagnetics, and elementary differential equations.

BASIC ELECTRICAL ENGINEERING
G Pearson Education India

This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for undergraduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of

<p>Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.</p> <p><i>BASIC ELECTRICAL AND ELECTRONICS ENGINEERING</i></p> <p>S. Chand Publishing</p> <p>The field of electrical engineering is very innovative-new products and new ideas are continually being developed. Yet all these innovations are based on</p>	<p>the fundamental principles of electrical engineering: Ohm's law, Kirchhoff's laws, feedback control, waveforms, capacitance, resistance, inductance, electricity, magnetism, current, voltage, power, energy. It is these basic fundamentals which are tested for in the Professional Engineering Examination (PE Exam). This text provides an organized</p>	<p>review of the basic electrical engineering fundamentals. It is an outgrowth of an electrical engineering refresher course taught by the author to candidates preparing for the Professional Engineering Examination-a course which has enabled scores of electrical engineers in Minnesota and Wisconsin to successfully pass the PE Exam. The material is representative of the type of questions</p>
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appearing in the PE Exams prepared by the National Council of Engineering Examiners (NCEE) over the past twelve years. Each problem in the text has been carefully selected to illustrate a specific concept. Included with each problem is at least one solution. Although the solutions have been carefully checked, both by the author and by students, there may be differences of interpretation. Also, in some cases certain assumptions may need to be made prior to problem solution, and since these to individual, the final answer may also differ. The assumptions will vary from individual author has attempted to keep the requirements for assumptions and interpretation to a minimum.

A Textbook of Electrical Technology - Volume III
New Age International Limited Publishers

The book covers all the aspects of Basic Electrical and Instrumentation Engineering for undergraduate course. Various concepts of three phase a.c. circuit analysis with balanced and unbalanced loads, tariff and power factor improvement, single phase and three phase transformers, d.c. machines, single phase and three phase induction motors, alternators,

synchronous motors, basics of measuring instruments and transducers are explained in the book with the help of comprehensive approach. The book starts with explaining the three phase a.c. circuit analysis with balanced and unbalanced loads, concept of transmission, distribution and power system protection. The discussion of tariff and power factor improvement is also added

in support. The book further explains single phase and three phase transformers. Then book provides the detailed discussion of d.c. generators and motors. The book also includes the discussion of three phase and single phase induction motors, synchronous generators, synchronous motors and other motors such as stepper motor, brushless d.c. motor and

universal motor. The book covers the classification and basic requirements of a measuring instrument. Then the book explains the static and dynamic characteristics and types of errors in measuring instruments. The book provides in depth discussion of electronic multimeter and oscilloscope. The book teaches the details of various types of transducers

like resistive, inductive, capacitive, thermoelectric, piezoelectric, photoelectric and Hall effect transducers. The book uses plain, simple and lucid language to explain each topic. Each chapter gives

the conceptual knowledge about the topic dividing it in the various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and

variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.